

**BILL OF STEEL**

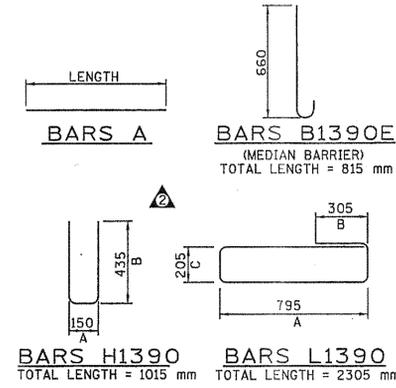
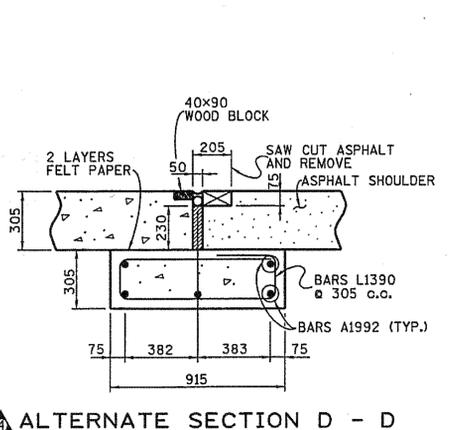
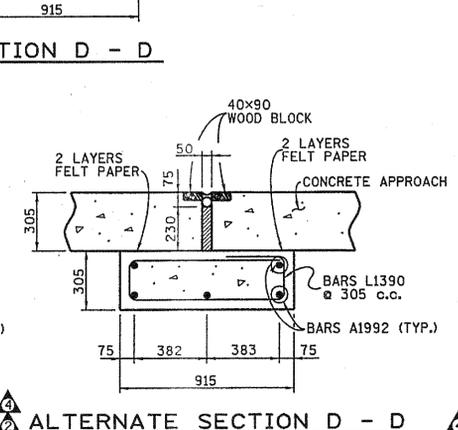
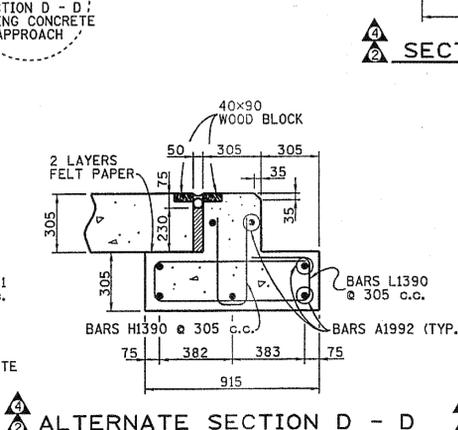
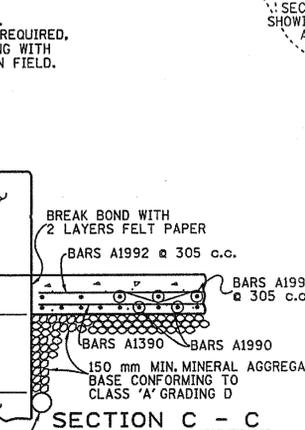
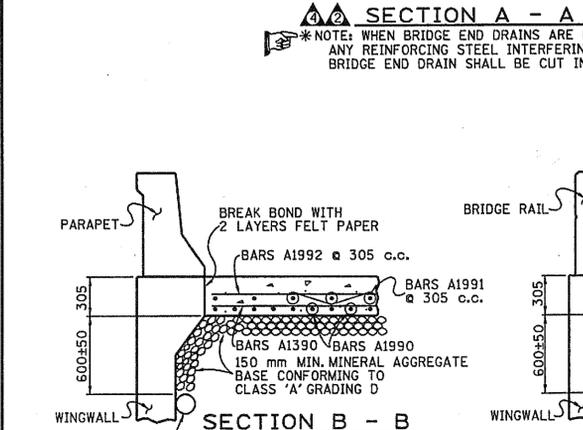
BARS	LOCATION	SIZE	NO. REQ'D	BENDING DIMENSIONS				LENGTH
				A	B	C	D	
B1390E	MEDIAN (WHEN REQ'D.)	13	48					815
A1390	SLAB	13	8					▲
A1990	SLAB	19	▲					3660
A1991	SLAB	19	▲					7225
A1992	SLAB	19	31					▲
H1390	FOOTING	13	▲	150	435			1015
L1390	FOOTING	13	▲	795	305	205		2305

▲ THESE NUMBERS VARY DEPENDING UPON ROADWAY WIDTH.

PROJECT NO.	YEAR	SHEET NO.
	1996	

**REVISIONS**

NO.	DATE	BY	BRIEF DESCRIPTION
1	6-10-96	BRB	NEW METRIC STANDARD
2	4-28-97	CMH	REVISED JOINT DETAILS AND NOTE
3	9-6-99	CMH	REVISED JOINT NOTE
4	7-31-00	CMH	REVISED JOINT DETAILS, NOTE, LIMITS OF PIPE AND ADDED NOTE #3
5	4-8-05	JHW	ADDED NOTE



NOTE: SLAB TO BE POURED DIRECTLY ON MINERAL AGGREGATE BASE STONE.  
 150mm PERFORATED WING DRAIN PIPE (FOR ABUTMENT DRAIN SYSTEM SEE STDM-10-1)

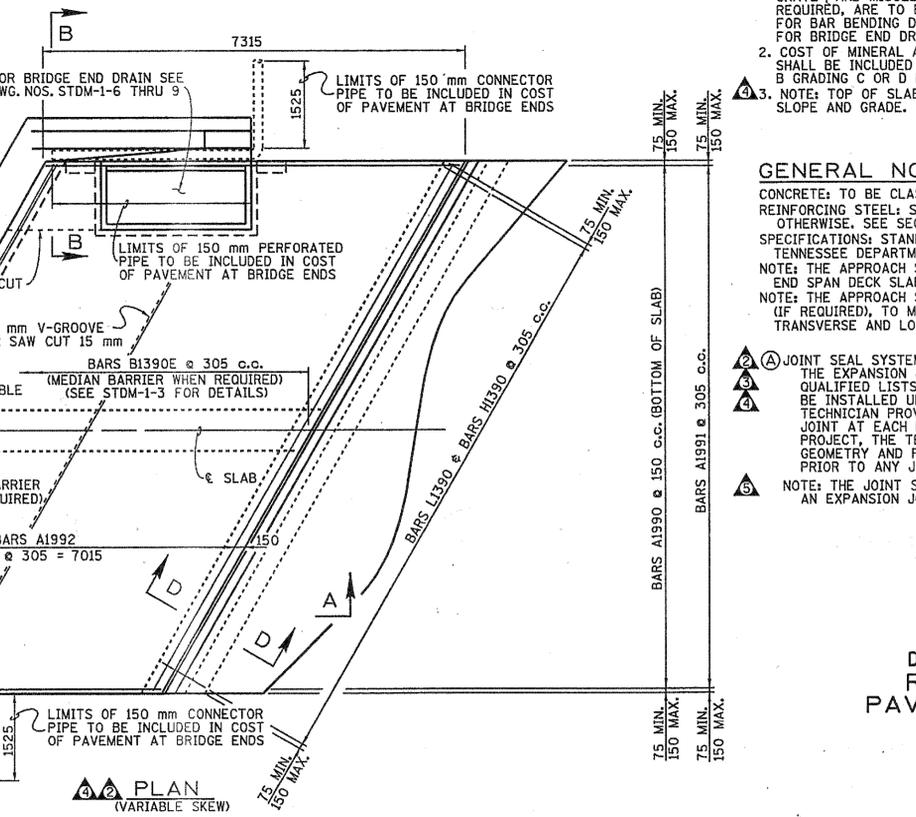
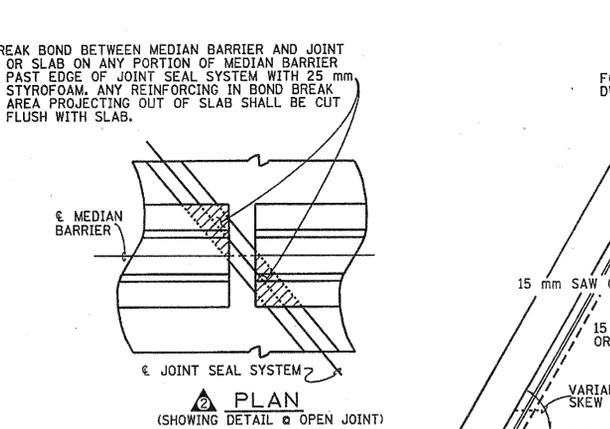
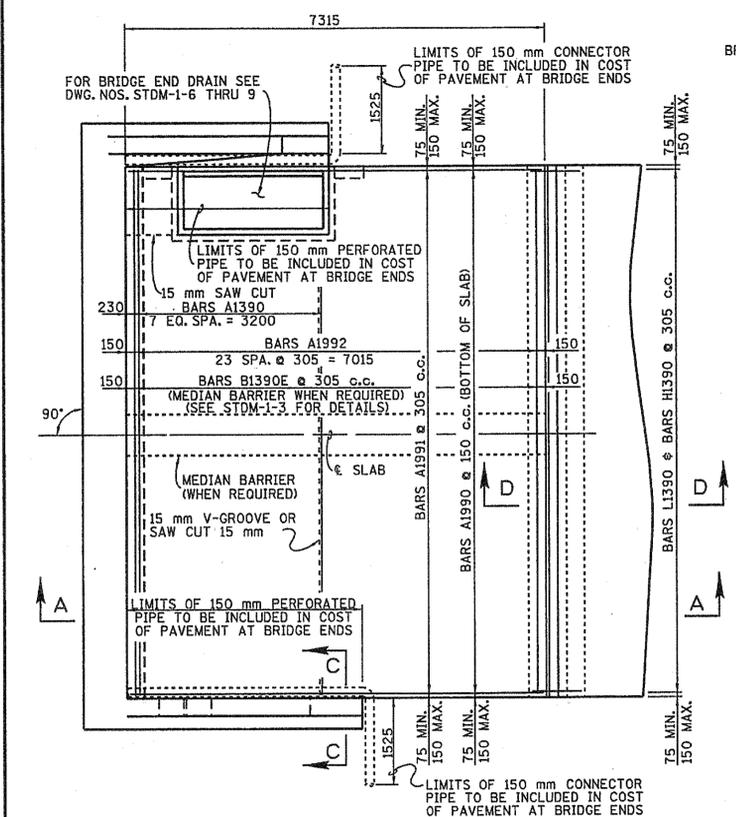
NOTE: SLAB TO BE POURED DIRECTLY ON MINERAL AGGREGATE BASE STONE.  
 150mm PERFORATED WING DRAIN PIPE (FOR ABUTMENT DRAIN SYSTEM SEE STDM-10-1)

NOTE: TO BE USED ONLY WHEN ROADWAY PAVING IS NOT INCLUDED IN PROJECT.

\* OMIT BARS H1390 & 2 BARS A1992 WHEN USING THIS ALTERNATE SECTION D - D.

(ASPHALT SHOULDER)

- NOTES**
- QUANTITIES FOR CLASS 'A' CONCRETE, REGULAR AND EPOXY COATED REINFORCING STEEL (WHEN REQUIRED FOR MEDIAN BARRIER), 40x90 WOOD BLOCK, BACKER ROD, JOINT SEALER, ELASTOMERIC CONCRETE, STYROFOAM, GRATE AND MISCELLANEOUS MATERIALS FOR BRIDGE END DRAIN, WHEN REQUIRED, ARE TO BE INCLUDED IN PAVEMENT AT BRIDGE ENDS, M<sup>2</sup> FOR BAR BENDING DIMENSIONS SEE THIS SHEET AND BILL OF STEEL FOR BRIDGE END DRAIN ON DRAWING NO. STDM-1-6.
  - COST OF MINERAL AGGREGATE CLASS A GRADING D BASE QUANTITY SHALL BE INCLUDED IN COST OF PAVEMENT AT BRIDGE ENDS. CLASS B GRADING C OR D MAY ALSO BE USED.
  - NOTE: TOP OF SLAB AND TOP OF END BEAM TO CONFORM TO ROADWAY SLOPE AND GRADE.



- GENERAL NOTES**
- CONCRETE: TO BE CLASS 'A' (f'c = 21 MPa)  
 REINFORCING STEEL: SHALL BE ASTM A615M GRADE 400 UNLESS NOTED OTHERWISE. SEE SECTION 604 AND 907 OF THE STANDARD SPECIFICATIONS. SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (CURRENT EDITION).  
 NOTE: THE APPROACH SLAB SHALL NOT BE POURED UNTIL THE ADJACENT END SPAN DECK SLAB IS IN PLACE AND ACCEPTED BY THE ENGINEER.  
 NOTE: THE APPROACH SLAB CONTROL ELEVATIONS SHALL BE ADJUSTED, (IF REQUIRED), TO MATCH THE IN PLACE DECK SLAB IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.
- JOINT SEAL SYSTEM:** THE EXPANSION JOINT SYSTEM USED SHALL BE ON THE TDOT APPROVED QUALIFIED LISTS FOR ACCEPTABLE PRODUCTS. THE JOINT SYSTEM SHALL BE INSTALLED UNDER THE DIRECT SUPERVISION OF AN AUTHORIZED TECHNICIAN PROVIDED BY THE EXPANSION JOINT SUPPLIER. FOR EACH JOINT AT EACH BRIDGE AND FOR EACH BRIDGE LOCATION WITHIN THE PROJECT, THE TECHNICIAN MUST APPROVE ALL ASPECTS OF THE GEOMETRY AND PREPARATION, INCLUDING GRINDING AND/OR GROOVING, PRIOR TO ANY JOINT MATERIAL INSTALLATION.
  - NOTE: THE JOINT SEAL SYSTEM IS NOT REQUIRED WHEN THE BRIDGE HAS AN EXPANSION JOINT AT THE ADJACENT ABUTMENT.

ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

MINOR REVISION - FHWA APPROVAL NOT REQUIRED

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 REINFORCED CONCRETE  
 PAVEMENT AT BRIDGE ENDS  
 1996

DESIGNED BY: C.M. HILES  
 DRAWN BY: KIM FRANKENFELD  
 SUPERVISED BY: C.M. HILES  
 CHECKED BY: \_\_\_\_\_

DATE: 4-95  
 DATE: 4-95  
 DATE: \_\_\_\_\_

**PLAN (90° SKEW)**